

Background Data for Noncommunicable Diseases in Latin America and the Caribbean: Youth Are Key to Prevention

(June 2013) This background data accompany the PRB data sheet *Noncommunicable Diseases in Latin America and the Caribbean:* Youth Are Key to Prevention. The data sheet is available at www.prb.org.

Physical Inactivity

The core indicator: percent not engaged in any type of physical activity for at least 60 minutes a day for 5 of the past 7 days.

The standard used for coding: high (red)>=70%; medium (yellow)=50%-69.9%; and low (green)<50% among 13-15 year old students.

Data Source
 CAMDI The Central America Diabetes Initiative (CAMDI): Survey of Diabetes, Hypertension and Chronic Disease Risk Factors, Belize 2009 (PAHO)
 CHMS Canadian Health Measures Survey 2007-2009 (Statistics Canada)

ENSANUT Encuesta Nacional de Salud y Nutrición 2012, Mexico [National Survey of Health and Nutrition] (Instituto

Nacional de Salud Publica)

ENSC Encuesta Nacional de Salud Chile 2009-2010 [Chile National Health Survey 2009-2010] (Ministerio de Salud,

Chile)

GSHS	Global School-based Student Health Survey (varying survey years per country) (US Centers for Disease Control and Prevention (CDC) and World Health Organization (WHO))
JHLS	Jamaica Health and Lifestyle Survey 2007-2008 (Epidemiology Research Center, University of the West Indies)
PENSE	Pesquisa Nacional de Saúde do Escolar 2009 [National Survey of School Health 2009], Brazil (IBGE, Diretoria de Pesquisa, Coordenação de População e Indicadores Sociais)
STEPS	STEPwise Approach to Chronic Disease Risk Factor Surveillance Survey 2010, Colombia (WHO)
YRBS	Youth Risk Behavior Survey (varying survey years per country) (CDC)

Physical Inactivity Among Males

Prevalence data in bold are based on an alternative definition of physical inactivity (percent not engaged in any type of physical activity for at least 60 minutes every day for the past 7 days. See notes for more details).

Country	Region	Year	Age	Prevalence	Sample Size	Source
NORTH AMERICA						
Canada	(see notes)	2007/2009	15-19	55.0		CHMS
United States		2011	13-15 ¹	40.1	7,431	YRBS
		2011	13-15 ¹	61.7	7,431	YRBS
Puerto Rico		2011	13-15 ¹	70.9	677	YRBS
		2011	13-15 ¹	84.1	677	YRBS
CENTRAL AMERICA						
Belize	(see notes)	2009	20-39	74.6	41,340	CAMDI
Costa Rica		2009	13-15	64.1	2,679	GSHS
El Salvador						
Guatemala		2009	13-15	71.4	5,592	GSHS
Mexico	(data pertain to both sexes, see notes)	2012	15-18	41.0	2,307	ENSANUT

CARIBBEAN						
Antigua and Barbuda		2009	13-15	63.5	1,266	GSHS
British Virgin Islands		2009	13-15	66.8	1,664	GSHS
Cayman Islands		2007	13-15	80.2	1,299	GSHS
Dominica		2009	13-15	75.2	1,642	GSHS
Grenada		2008	13-15	81.9	1,542	GSHS
Jamaica	(see notes)	2007/2008	15-24	46.0		JHLS
St. Kitts-Nevis		2011	13-15	70.7	1,740	GSHS
Saint Lucia		2007	13-15	82.6	1,276	GSHS
St. Vincent and the Grenadines		2007	13-15	84.4	1,333	GSHS
Trinidad and Tobago		2011	13-15	64.0	2,811	GSHS
SOUTH AMERICA						
Argentina		2007	13-15	81.8	1,980	GSHS
Brazil	(see notes)	2009	14-15 ²	43.8	30,487	PENSE
Chile	(see notes)	2009-2010	15-24	12.5	355	ENSC
Colombia	Manizales	2007	13-15	84.0	2,037	GSHS
	Bogota, official schools	2007	13-15	82.9	1,170	GSHS
	Valledupar City	2007	13-15	82.2	2,095	GSHS
	Bogota	2007	13-15	81.9	1,737	GSHS
	Cali City	2007	13-15	80.3	1,945	GSHS
	Bucaramanga City	2007	13-15	80.2	2,093	GSHS
	Bogota, private schools	2007	13-15	80.0	567	GSHS
Ecuador	Guayaquil	2007	13-15	87.8	2,669	GSHS
	Zamora	2007	13-15	82.5	640	GSHS
	Quito	2007	13-15	81.1	2,215	GSHS
Guyana		2010	13-15	76.2	2,392	GSHS
Peru		2010	13-15	73.0	2,882	GSHS
Suriname		2009	13-15	69.5	1,698	GSHS

Uruguay	2006	13-15	73.4	3,406	GSHS	
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Physical Inactivity Among Females

Prevalence data in bold are based on an alternative definition of physical inactivity (percent not engaged in any type of physical activity for at least 60 minutes every day for the past 7 days. See notes for more details).

Country	Region	Year	Age	Prevalence	Sample Size	Source
NORTH AMERICA						
Canada	(see notes)	2007/2009	15-19	75.0		CHMS
United States		2011	13-15	61.5	7,559	YRBS
		2011	13-15	81.5	7,559	YRBS
Puerto Rico		2011	13-15	83.0	808	YRBS
		2011	13-15	91.6	808	YRBS
CENTRAL AMERICA						
Belize	(see notes)	2009	20-39	84.4	43,226	CAMDI
Costa Rica		2009	13-15	81.0	2,679	GSHS
El Salvador						
Guatemala		2009	13-15	80.8	5,592	GSHS
Mexico	(data pertain to both sexes, see notes)	2012	15-18	41.0	2,307	ENSANUT
CARIBBEAN						
Antigua and Barbuda		2009	13-15	73.0	1,266	GSHS
British Virgin Islands		2009	13-15	77.3	1,664	GSHS
Cayman Islands		2007	13-15	88.3	1,299	GSHS
Dominica		2009	13-15	77.4	1,642	GSHS
Grenada		2008	13-15	86.9	1,542	GSHS
Jamaica	(see notes)	2007/2008	15-24	77.5		JHLS
St. Kitts-Nevis		2011	13-15	78.1	1,740	GSHS

Saint Lucia		2007	13-15	86.0	1,276	GSHS
St. Vincent and the Grenadines		2007	13-15	88.6	1,333	GSHS
Trinidad and Tobago		2011	13-15	77.1	2,811	GSHS
SOUTH AMERICA						
Argentina		2007	13-15	92.1	1,980	GSHS
Brazil	(see notes)	2009	14-15 ²	68.7	30,487	PENSE
Chile	(see notes)	2009-2010	15-24	28.9	432	ENSC
Colombia	Manizales	2007	13-15	90.9	2,037	GSHS
	Bogota, private schools	2007	13-15	89.9	567	GSHS
	Valledupar City	2007	13-15	88.3	2,095	GSHS
	Bogota	2007	13-15	87.2	1,737	GSHS
	Bucaramanga City	2007	13-15	86.1	2,093	GSHS
	Bogota, official schools	2007	13-15	85.5	1,170	GSHS
	Cali City	2007	13-15	85.0	1,945	GSHS
Ecuador	Guayaquil	2007	13-15	94.2	2,669	GSHS
	Quito	2007	13-15	89.2	2,215	GSHS
	Zamora	2007	13-15	88.0	640	GSHS
Guyana		2010	13-15	80.9	2,392	GSHS
Peru		2010	13-15	77.8	2,882	GSHS
Suriname		2009	13-15	76.4	1,698	GSHS
Uruguay		2006	13-15	87.9	3,406	GSHS

Notes

ANTIGUA & BARBUDA, COSTA RICA, DOMINICA, GUATEMALA, GUYANA, PERU, ST.KITTS & NEVIS, and SURINAME: Physical inactivity in these countries is measured using a more stringent definition (prevalence rates for these countries are in bold). Being physically inactive is defined in these countries as not engaging in any type of physical activity for at least 60 minutes a day for 7 days, instead of 5 days, for the past 7 days. YRBS conducted in the United States and Puerto Rico report the levels of physical inactivity using both the 5 day and 7 day definitions and show differences of around 10% to 20% in the levels of physical inactivity

between them. We therefore adjust the standard used for coding in the countries employing the 7 day definition accordingly to account for possible differences resulting from the different definitions used across countries.

BELIZE: The youngest age group for which the results are presented from CAMDI is 20-39, much older than the 13-15 age group used in our standard. Because the prevalence of physical inactivity rises with age, we expect the level of inactivity for the 20-39 year olds to be much higher than the 13-15 year olds for any comparable measures. We would ordinarily adjust this age bias by lowering our risk level coding for Belize. However, CAMDI defines physically active status using a much less stringent definition compared to our core indicator. Physical activity levels are categorized into three groups--sedentary, moderate, and active--and being active is defined as having 150 minutes or more of physical activity per week on average. This is roughly half the requirement used in the core indicator. Given these two factors that influence the levels of physical inactivity in opposite directions, we apply the same standard we use for other countries to code physical inactivity levels in Belize and code them to be high for both males and females.

BRAZIL: In PENSE, being physically active is defined as engaging in 300 minutes or more of activity in the past 7 days. While this is not exactly equivalent to the definition used in our core indicator of 60 minutes a day of activity for 5 or more days in the past 7 days, we apply the same standard as we expect the results to be sufficiently comparable.

CANADA: CHMS used accelerometers to collect objective measures of physical ativity. Percentages of adolescents with at least 60 minutes of moderate to vigorous physical activity on at least 3 days a week were 51% for boys and 33% for girls aged 11-14, and 45% for boys and 25% for girls aged 15-19. Percentages of adolescents with the above activity levels on at least 6 days a week are below 10% for all the groups above. We therefore code the risk of physical inactivity as medium for males and high for females.

CHILE: In ENSC, prevalence of physical activity is reported for 15-24 year olds only for low activity-level based on the Global Physical Activity Questionnaire (GPAQ). Low activity is defined as not meeting any of the following criteria: 3 or more days of vigrous-intensity activity of at least 20 minutes per day; 5 or more days of moderate-intensity activity or walking of at least 30 minutes per day; or 5 or more days of any combination of walking, moderate- or vigorous-intensity activities achieving a minimum of at least 600 MET-minutes per week. While these definitions are much more lenient compared to the standard we use, still, only 12.5% and 28.9% of boys and girls, respectively, have low physical activity-levels. Furthermore, because the age group examined is substantially older than the 13-15 year old used in our standard, we expect these precentages for 13-15 year olds would be even lower. We therefore code the risk of physical inacitivity in Chile as low for both sexes.

JAMAICA: In JHLS, physical activity levels are categorized into four groups—high, moderate, low, and inactive. High activity level is defined as being engaged in work that involves much muscular activity, exercise, or leisure time activity for at least 20 minutes in one sitting more than 3 times a week. Although this definition is much more lenient compared to the standard we use, only 54% of men and 22.5% of women aged 15-24 are classified as having high activity level. We therefore code the risk of physical inactivity as high for both males and females.

MEXICO: ENSANUT provides data on physical activity among 15-18 year olds only for both sexes combined. Since no activity-related information among youth by sex are available to assess sex differences in physical activity levels in Mexico, we present the risk for both sexes combined. Adolescents are classified as being active (59.0%), moderately active (18.3%), and inactive (22.7%). Being active is defined as having at least 7 hours per week of moderate and/or vigorous activity, which we expect to be sufficiently comparable to using our alternative standard of 60 minutes a day for 7 days. Furthermore, being moderately active is defined as having less than 7 hours but more than 4 hours a week of moderate and/or vigorous activity, so some of the adolescents in this category are likely considered physically active using our core indicator. We therefore code the risk of physical inactivity for Mexico to be low for both sexes.

Footnotes

*Sample sizes for Global Youth Tobacco Survey (GYTS) are for both sexes combined. Sample sizes for Global School-based Student Health Survey (GSHS) are for both sexes combined and for all ages included in the survey (not limited to 13-15 year olds).

¹grades 9-12, ²grade 9

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